

**Flood Control Project Maintenance
Levee Inspections**

Fall 2016 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

ST0010	Overall LMA Rating	Total LMA Miles						
Sutter Maintenance Yard Wadsworth Canal	U	9.22						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Animal Control	0.02	0.01	0.06	0.65%				
Slope Stability	0.03		0.03	0.33%				
Erosion / Bank Caving	0.55	0.01	0.59	6.40%				
Cracking							0.01	
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	3.04		3.04	32.96%				
DWR UCIP Field Study					0.13	0.01		
<i>LMA Totals:</i>	3.64	0.02	3.72	40.33%	0.13	0.01	0.01	0.00
Unit No. 01 Wadsworth Canal LB	Overall Unit Rating	Total Unit Miles						
ST0010	U	4.63						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Animal Control	0.01		0.01	0.22%				
Erosion / Bank Caving	0.13	0.01	0.17	3.67%				
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	1.52		1.52	32.86%				
DWR UCIP Field Study					0.06			
<i>Unit Totals:</i>	1.66	0.01	1.70	36.75%	0.06	0.00	0.00	0.00
Unit No. 02 Wadsworth Canal RB	Overall Unit Rating	Total Unit Miles						
ST0010	U	4.60						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Animal Control	0.01	0.01	0.05	1.09%				
Slope Stability	0.03		0.03	0.65%				
Erosion / Bank Caving	0.42		0.42	9.13%				
Cracking							0.01	
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	1.52		1.52	33.06%				
DWR UCIP Field Study					0.07	0.01		
<i>Unit Totals:</i>	1.98	0.01	2.02	43.93%	0.07	0.01	0.01	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2016 Levee Inspection Results

Sutter Maintenance Yard Wadsworth Canal

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Sutter Maintenance Yard Wadsworth Canal

Waterway			Bank	Unit Miles
Unit No. 01 Wadsworth Canal			Left	4.63
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	3/17/2016 - 3/17/2016		9/23/2016 - 9/23/2016	
DWR Inspector	Keith Millard		Tariq Chechi	
Accompanied By	Steve Beckley Sutter Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	09/23/2016 09/23/2016	Tariq Chechi

LM Start		Rating **	A	Issue No.	10
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Operations & Maintenance Manuals			°	
				°	
DWR ID	DWR_ST0010_01_s _ 2013_10				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	11
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Emergency Supplies & Equipment			°	
				°	
DWR ID	DWR_ST0010_01_s _ 2013_11				
Comment Code					
Inspector Comment					
The LMA has flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	12
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Flood Preparedness & Training			°	
				°	
DWR ID	DWR_ST0010_01_s _ 2013_12				
Comment Code					
Inspector Comment					
The LMA completed flood fight training in 2014.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	09/23/2016 09/23/2016	Tariq Chechi

LM Start	0.02	Rating **	M	Issue No.	113
LM End	0.02	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.113670 °	39.113670 °
				-121.768310 °	-121.768310 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50355 DS_ID:17068 EP_NO: 5296 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 10/12/2016 Unable to locate.(DWR Sutter Yard - afreitag)4/19/2016 Unable to locate.5/12/2015 Unable to locate.11/18/2014 Unable to locate.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection.10/9/2012 Need to determine disposition of pipe, contact pipe owner if possible. FIELD_STRUCT_DESC: 3.5-inch steel gas line through the levee, 3 feet below the crown. Gas line goes through both levees and Wadsworth Canal. Waterside (WS) bank protected by rock. (Permit No. 5296, 1966 - Atlantic Oil Company). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 10/12/2016 12:20:22 PM					

No Photos

LM Start	0.06	Rating **	M	Issue No.	20
LM End	0.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.114203 °	39.114842 °
				-121.768015 °	-121.767382 °
DWR ID	DWR_ST0010_01_f_2016_20				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Monitor the erosion along the waterside toe.					

Photo 1 of 1 : FA_2016_ST0010_42_20_20161003_00026.jpg



View of the erosion along the waterside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	09/23/2016 09/23/2016	Tariq Chechi

LM Start	0.38	Rating **	M	Issue No.	19
LM End	0.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.117910 °	39.117910 °
				-121.764497 °	-121.764497 °
DWR ID	DWR_ST0010_01_f_2016_19				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Monitor the erosion along the waterside toe.					

Photo 1 of 1 : FA_2016_ST0010_42_19_20161003_00025.jpg



View of the erosion along the waterside toe.

LM Start	1.21	Rating **	M	Issue No.	108
LM End	1.21	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.127566 °	39.127566 °
				-121.755282 °	-121.755282 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50356 DS_ID:17059 EP_NO: 1605 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/12/2016 Abandoned crossing.(DWR Sutter Yard - afreitag)4/16/2016 Abandoned crossing. Ws pipe end is open and should be capped.5/12/2015 Abandoned crossing. Needs to be properly abandoned.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection.10/9/2012 No pump on Pier and power lines cut. Apparently abandoned-should be abandoned properly. FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel irrigation pipe (permit records indicate 16-inch pipe) through the levee, 3.7 feet below the crown. Siphon breaker on the wterside (WS) slope. Pump on channel bank on steel structure. (16-inch pipe authorized under Permit No. 1605, 1959 - Schnabel, aerial 12 KV power line extension for pump authorized under Permit No. 1631, 1959 - Pacific Gas and Electric Company [PG&E]) [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 10/12/2016 12:22:19 PM					

Photo 1 of 2 : UCIP_FA_2016_50356_64702.jpg



Power pole with cut powerlines, pump missing from steel pier.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	09/23/2016 09/23/2016	Tariq Chechi

LM Start	1.21	Rating **	M	Issue No.	108 (cont)
LM End	1.21	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.127566 °	39.127566 °
				-121.755282 °	-121.755282 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50356 DS_ID:17059 EP_NO: 1605 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/12/2016 Abandoned crossing.(DWR Sutter Yard - afreitag)4/16/2016 Abandoned crossing. Ws pipe end is open and should be capped.5/12/2015 Abandoned crossing. Needs to be properly abandoned.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection.10/9/2012 No pump on Pier and power lines cut. Apparently abandoned-should be abandoned properly. FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel irrigation pipe (permit records indicate 16-inch pipe) through the levee, 3.7 feet below the crown. Siphon breaker on the wterside (WS) slope. Pump on channel bank on steel structure. (16-inch pipe authorized under Permit No. 1605, 1959 - Schnabel, aerial 12 KV power line extension for pump authorized under Permit No. 1631, 1959 - Pacific Gas and Electric Company [PG&E]) [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 10/12/2016 12:22:19 PM					

Photo 2 of 2 : UCIP_FA_2016_50356_64701.jpg



Pipe on LS toe.

LM Start	1.75	Rating **	M	Issue No.	7
LM End	2.39	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.133887 °	39.141757 °
				-121.749526 °	-121.742939 °
DWR ID	DWR_ST0010_01_s_2016_7				
Comment Code					
Inspector Comment					
2011 - Whole bank is starting to unravel, with failure from poor soils.					
2015: Site is part of the extended inventory, last inspected 2011. [2015					
Site ID: WAD_2-1_L]					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	09/23/2016 09/23/2016	Tariq Chechi

LM Start	1.85	Rating **	M	Issue No.	109
LM End	1.85	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.135091 °	39.135091 °
				-121.748196 °	-121.748196 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50361
DS_ID:17063
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/12/2016 Abandoned crossing.(DWR Sutter Yard - afreitag)4/19/2016 Abandoned crossing. No noticeable issues to report.5/12/2015 Abandoned crossing. Cap was made and installed on WS open end of pipe.11/18/2014 Same as last inspection.5/13/2014 Cap was made and bolted on to WS open end of pipe.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection. Steve Beckley is looking into finding pipe owner to properly abandon pipe.10/9/2012 Pipe abandoned. Pipe open and not plugged. Pipe should be removed or abandoned properly. Extensive animal burrowing occurring along pipe alignment.
FIELD_STRUCT_DESC: *ABANDONED* 14-inch steel irrigation pipe (permit records reference 24-inch corrugated metal in 1939 and existing 18-inch pipe in 1932 through levee, USACE O&M references 15-inch pipe 1953) through the levee, 5.7 feet below the crown. Siphon breaker is located on the landside (LS). Vertical pump located on the waterside (WS). Meter pole located on the WS berm. (permit authorized existing 18-inch pipe and new install of pump under Permit No. 572, 1932 - Joaquin). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 98+02)].
FS Date: 10/12/2016 12:53:40 PM

LM Start	1.85	Rating **	M	Issue No.	109 (cont)
LM End	1.85	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_50361_64711.jpg



Pump missing from steel pier on WS toe.

Photo 2 of 2 : UCIP_FA_2016_50361_64710.jpg



Pipe with siphon breaker plugged on LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	09/23/2016 09/23/2016	Tariq Chechi

LM Start	1.85	Rating **	U	Issue No.	107
LM End	1.85	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.135110 °	39.135110 °
				-121.748230 °	-121.748230 °
DWR ID	DWR_ST0010_01_f_2013_107				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the erosion under the abandoned pump.					

LM Start	1.85	Rating **	U	Issue No.	107 (cont)
LM End	1.85	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : FA_2016_ST0010_42_107_20160823_00012.jpg



View of the erosion along both sides of the abandoned pump.

Photo 2 of 2 : FA_2016_ST0010_42_107_20160823_00013.jpg



View of the erosion along both sides of the abandoned pump.

LM Start	1.85	Rating **	M	Issue No.	106
LM End	1.85	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.135110 °	39.135110 °
				-121.748229 °	-121.748229 °
DWR ID	DWR_ST0010_01_f_2013_106				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA_2016_ST0010_42_106_20160823_00011.jpg



View of the rodent holes under the irrigation pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	09/23/2016 09/23/2016	Tariq Chechi

LM Start	2.43	Rating **	M	Issue No.	6
LM End	3.30	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.142235 °	39.153095 °
				-121.742609 °	-121.734390 °
DWR ID	DWR_ST0010_01_f_2015_6				
Comment Code					
Inspector Comment					
2010 - Over steepened levees, some slumping, reach-wide problem.					
2011 - Still a reach-wide problem. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: WAD_2-4_L]					

Photo 1 of 4 : FA_2016_ST0010_42_6_20160823_00006.jpg



View of the erosion along the waterside toe.

LM Start	2.43	Rating **	M	Issue No.	6 (cont)
LM End	3.30	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : FA_2016_ST0010_42_6_20160823_00007.jpg



View of the erosion along the waterside toe.

LM Start	2.43	Rating **	M	Issue No.	6 (cont)
LM End	3.30	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : FA_2016_ST0010_42_6_20160823_00008.jpg



View of the erosion along the waterside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	09/23/2016 09/23/2016	Tariq Chechi

LM Start	2.43	Rating **	M	Issue No.	6 (cont)	
LM End	3.30	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2015 USACE Erosion Survey, DRAFT			39.142235 °		39.153095 °
				-121.742609 °		-121.734390 °
DWR ID	DWR_ST0010_01_f_2015_6					
Comment Code						
Inspector Comment						
2010 - Over steepened levees, some slumping, reach-wide problem. 2011 - Still a reach-wide problem. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: WAD_2-4_L]						

Photo 4 of 4 : FA_2016_ST0010_42_6_20160823_00009.jpg



View of the erosion along the waterside toe.

LM Start	3.04	Rating **	M	Issue No.	110
LM End	3.04	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.149549 °	39.149549 °
				-121.736408 °	-121.736408 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50363 DS_ID:17065 EP_NO: 7209 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/12/2016 LS inlet is still deformed and being overgrown by vegetation.(DWR Sutter Yard - afreitag)4/19/2016 Crossing appears to be in good condition.5/12/2015 LS inlet still deformed a little but does not affect the crossing function.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Pipe intake on LS appears to be bent and damaged but that does not appear to be affecting water flow or channel bank. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe (permit records indicate 30-inch USACE O&M pipe replaced with new 30-inch pipe) through the levee, 9 feet below the crown. Flap gate located on the waterside (WS) end. (original O&M manual crossing was replaced under Permit No. 7209, 1970 - Department of Water Resources) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 160+25)]. FS Date: 10/12/2016 1:01:13 PM					

Photo 1 of 2 : UCIP_FA_2016_50363_64718.jpg



36-inch pipe with flapgate on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	09/23/2016 09/23/2016	Tariq Chechi

LM Start	3.04	Rating **	M	Issue No.	110 (cont)	
LM End	3.04	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.149549 °	39.149549 °	
				-121.736408 °	-121.736408 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50363 DS_ID:17065 EP_NO: 7209 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/12/2016 LS inlet is still deformed and being overgrown by vegetation.(DWR Sutter Yard - afreitag)4/19/2016 Crossing appears to be in good condition.5/12/2015 LS inlet still deformed a little but does not affect the crossing function.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Pipe intake on LS appears to be bent and damaged but that does not appear to be affecting water flow or channel bank. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe (permit records indicate 30-inch USACE O&M pipe replaced with new 30-inch pipe) through the levee, 9 feet below the crown. Flap gate located on the waterside (WS) end. (original O&M manual crossing was replaced under Permit No. 7209, 1970 - Department of Water Resources) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 160+25)]. FS Date: 10/12/2016 1:01:13 PM						

Photo 2 of 2 : UCIP_FA_2016_50363_64717.jpg



Inlet in weeds on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	09/23/2016 09/23/2016	Tariq Chechi

LM Start	3.30	Rating **	M	Issue No.	111
LM End	3.30	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.153043 °	39.153043 °
				-121.734247 °	-121.734247 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50364 DS_ID:23097 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/12/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)5/31/2016 Need photos markers and levee overview (O. Magana)4/19/2016 Crossing appears to be in good condition. No permit on file.5/12/2015 No noticeable issues with crossing but no permit on file for it.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 No known permit for work. FIELD_STRUCT_DESC: 4-inch steel communication line conduit through the levee, 2 feet below the crown. Fiber optic line attached to bottom of downstream side of South Butte Road bridge. Position marked with orange markers. No permit has been identified since crossing was field discovered in 2012. FS Date: 10/12/2016 1:25:10 PM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	09/23/2016 09/23/2016	Tariq Chechi

LM Start	3.50	Rating **	M	Issue No.	112
LM End	3.50	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.155752 °	39.155752 °
				-121.733115 °	-121.733115 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50365
DS_ID:17066
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/12/2016 Crossing appears to be in good condition. 4/19/2016 Crossing has not changed since the last inspection. LS headwall is silted in and not being used. LS pipe end discharges into the rice field. 5/12/2015 Concrete headwall on LS is completely silted in. LS pipe end is located near the edge of rice field. No issues seen on WS. 11/18/2014 Same as last inspection. 5/13/2014 Same as last inspection. 10/29/2013 Concrete headwall is silted in and appears to be abandoned. Discharge end of pipe is approx. 100ft. from LS toe on the edge of the rice field. 5/16/2013 Same as last inspection.
FIELD_STRUCT_DESC: 24-inch steel irrigation pipe (USACE O&M refers to 24-inch corrugated metal pipe) through the levee, 11 feet below the crown. Slide gate in 4-foot by 6-foot concrete distribution box located at the waterside (WS) toe. (not found in 2012) Vertical pump mounted on a steel structure in channel. Service pole on the berm with 18-inch standpipe located on the WS toe. Concrete "U" shaped headwall located on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 184+87)].
FS Date: 10/12/2016 1:31:52 PM

LM Start	3.50	Rating **	M	Issue No.	112 (cont)
LM End	3.50	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_50365_64720.jpg



Pump, Pipe, walkway, power pole, and standpipe on WS toe.

Photo 2 of 2 : UCIP_FA_2016_50365_64719.jpg



Concrete U shaped headwall on LS toe under tree.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	09/23/2016 09/23/2016	Tariq Chechi

LM Start	3.53	Rating **	M	Issue No.	3
LM End	3.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.156225 °	39.156639 °
				-121.732930 °	-121.732755 °
DWR ID	DWR_ST0010_01_s_2012_3				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Monitor the erosion along the waterside toe.					

Photo 1 of 1 : FA_2016_ST0010_42_3_20160823_00001.jpg



View of the erosion along the waterside toe.

LM Start	3.65	Rating **	M	Issue No.	4
LM End	3.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.157861 °	39.157861 °
				-121.732238 °	-121.732238 °
DWR ID	DWR_ST0010_01_s_2012_4				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Monitor the erosion along the waterside toe.					

Photo 1 of 2 : FA_2016_ST0010_42_4_20160823_00002.jpg



View of the erosion along the waterside toe of the levee.

LM Start	3.65	Rating **	M	Issue No.	4 (cont)
LM End	3.65	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_ST0010_42_4_20160823_00003.jpg



View of the erosion along the waterside toe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	09/23/2016 09/23/2016	Tariq Chechi

LM Start	3.84	Rating **	M	Issue No.	17
LM End	3.85	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.160442 °	39.160517 °
				-121.731067 °	-121.731137 °
DWR ID	DWR_ST0010_01_f_2014_17				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Monitor the erosion along the waterside toe.					

Photo 1 of 1 : FA_2016_ST0010_42_17_20160823_00010.jpg



View of the erosion along the waterside toe.

LM Start	4.23	Rating **	M	Issue No.	5
LM End	4.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.165845 °	39.165845 °
				-121.728877 °	-121.728877 °
DWR ID	DWR_ST0010_01_s_2012_5				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Monitor the erosion along the waterside toe.					

Photo 1 of 2 : FA_2016_ST0010_42_5_20160823_00004.jpg



View of the erosion along the waterside toe.

LM Start	4.23	Rating **	M	Issue No.	5 (cont)
LM End	4.23	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_ST0010_42_5_20160823_00005.jpg



View of the erosion along the waterside toe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Sutter Maintenance Yard Wadsworth Canal

Waterway			Bank	Unit Miles
Unit No. 02 Wadsworth Canal			Right	4.60
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	3/17/2016 - 3/17/2016		9/23/2016 - 9/23/2016	
DWR Inspector	Keith Millard		Tariq Chechi	
Accompanied By	Steve Beckley Sutter Maintenance Yard		Steve Beckley Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	09/23/2016 09/23/2016	Tariq Chechi

LM Start	0.02	Rating **	M	Issue No.	23
LM End	0.02	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.114372 °	39.114372 °
				-121.769263 °	-121.769263 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50368 DS_ID:17080 EP_NO: 5296 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 10/12/2016 Unable to locate.(DWR Sutter Yard - afreitag)4/19/2016 Unable to locate.5/12/2015 Unable to locate.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection.10/9/2012 Unable to locate any signage. Call owner to determine disposition of pipeline. FIELD_STRUCT_DESC: 3.5-inch steel gas line through the levee, 3 feet below the crown. Gas line goes through both levees and Wadsworth Canal. (Permit No. 5296, 1966 - Atlantic Oil Company). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 10/13/2016 7:25:31 AM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	09/23/2016 09/23/2016	Tariq Chechi

LM Start	1.16	Rating **	M	Issue No.	24
LM End	1.16	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.127487 °	39.127487 °
				-121.756485 °	-121.756485 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50369
DS_ID:17069
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/12/2016 Abandoned crossing.(DWR Sutter Yard - afreitag)4/19/2016 Abandoned crossing. Rodent activity still present on WS slope.5/12/2015 Abandoned crossing. Signs of rodent activity on both sides of levee.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection.10/9/2012 Pipe appears improperly abandoned. No motor present, electrical equipment is stripped. Heavy rodent activity along pipe WS and LS. Pipe needs to be removed or properly abandoned.
FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation pipe through the levee, 4.8 feet below the crown. Pump mounted on concrete pad near canal bank located on the waterside (WS). Service pole located on the berm. 36-inch concrete standpipe located on the landside (LS) toe. (Permit No. 945, 1944 - Becker). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 61+10)].
FS Date: 10/13/2016 7:28:17 AM

LM Start	1.16	Rating **	M	Issue No.	24 (cont)
LM End	1.16	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_50369_64728.jpg



Pipe and Standpipe on LS toe.

Photo 2 of 2 : UCIP_FA_2016_50369_64727.jpg



Pipe and pump facilities on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	09/23/2016 09/23/2016	Tariq Chechi

LM Start	1.16	Rating **	U	Issue No.	19
LM End	1.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.127527 °	39.127527 °
				-121.756493 °	-121.756493 °
DWR ID	DWR_ST0010_02_f_2016_19				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA_2016_ST0010_43_19_20161003_00031.jpg



View of the rodent holes along the landside slope.

LM Start	1.17	Rating **	M	Issue No.	3
LM End	1.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.127648 °	39.127648 °
				-121.756345 °	-121.756345 °
DWR ID	DWR_ST0010_02_s_2012_3				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA_2016_ST0010_43_3_20160823_00001.jpg



View of vehicle erosion along L/S slope.

LM Start	1.74	Rating **	M	Issue No.	10
LM End	2.37	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.134064 °	39.141814 °
				-121.749781 °	-121.743260 °
DWR ID	DWR_ST0010_02_s_2016_10				
Comment Code					
Inspector Comment					
2011 - Whole bank is starting to unravel, with failure from poor soils. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: WAD_2-1_R]					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	09/23/2016 09/23/2016	Tariq Chechi

LM Start	1.75	Rating **	M	Issue No.	20
LM End	1.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.134378 °	39.134378 °
				-121.749803 °	-121.749803 °
DWR ID	DWR_ST0010_02_f_2016_20				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Ramp is causing depression in the levee slope.					

Photo 1 of 1 : FA_2016_ST0010_43_20_20161003_00032.jpg



View the ramp encroaching into the levee.

LM Start	1.76	Rating **	M	Issue No.	11
LM End	1.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.134490 °	39.134490 °
				-121.749716 °	-121.749716 °
DWR ID	DWR_ST0010_02_f_2012_11				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Repair the rodent hole.					

Photo 1 of 2 : FA_2016_ST0010_43_11_20160823_00012.jpg



View of the rodent holes above the irrigation pipe.

LM Start	1.76	Rating **	M	Issue No.	11 (cont)
LM End	1.76	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_ST0010_43_11_20160823_00013.jpg



View of the rodent hole above the irrigation pipe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	09/23/2016 09/23/2016	Tariq Chechi

LM Start	1.76	Rating **	M	Issue No.	25
LM End	1.76	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.134497 °	39.134497 °
				-121.749716 °	-121.749716 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50374
DS_ID:17074
EP_NO: 1096
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/12/2016 Crossing appears to be in good condition. Minor rodent activity nearby.(DWR Sutter Yard - afreitag)4/19/2016 No signs of pipe leaks. Still some minor rodent activity under the pipe on LS slope.5/12/2015 Rodent activity near pipe on LS.11/18/2014 Levee inspection is aware of problem and repairs seem to have been made. Slope has also been rocked to prevent erosion.5/13/2014 Air vent on LS shoulder leaks and is causing minor erosion to the LS slope.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection.10/9/2012 Heavy rodent activity on LS slope along pipe alignment.
FIELD_STRUCT_DESC: 16-inch steel irrigation pipe (USACE O&M refers to 15-inch pipe) through the levee, 4.4 feet below the crown. Pump mounted on a steel structure located on the waterside (WS) bank. Siphon breaker located on the WS slope. 48-inch concrete standpipe located on the landside (LS) berm (not found 2012). (16-inch pipe authorized under Permit No. 1096, 1946 - Ziegenmeyer, owner name change for structure authorized under Permit No. 1479, 1950 - Brown). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 93+55)].
FS Date: 10/13/2016 7:38:49 AM

LM Start	1.76	Rating **	M	Issue No.	25 (cont)
LM End	1.76	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_50374_65356.jpg



Pipe on LS with rodent activity shown.

Photo 2 of 2 : UCIP_FA_2016_50374_65355.jpg



Pipe on LS with rodent activity shown.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	09/23/2016 09/23/2016	Tariq Chechi

LM Start	1.76	Rating **	M	Issue No.	26
LM End	1.76	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.134499 °	39.134499 °
				-121.749712 °	-121.749712 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50375 DS_ID:17082 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/12/2016 Abandoned crossing. Minor rodent activity near by.(DWR Sutter Yard - afreitag)4/19/2016 Crossing appears abandoned. Minor rodent activity under pipe on LS slope.5/12/2015 Abandoned crossing that needs to be properly abandoned. Rodent activity near LS pipe.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection.10/9/2012 Heavy rodent activity along LS alignment of pipe. No pump on structure and it appears to be abandoned. Should be abandoned properly. FIELD_STRUCT_DESC: *ABANDONED* 16-inch steel irrigation pipe through the levee, 4.4 feet below the crown. Pump mounted on a timber structure located on the waterside (WS). Siphon breaker located on the landside (LS) slope. 48-inch concrete standpipe located on the LS berm (not found 2012). (Permit No. 1104, 1946 - Muns) [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 10/13/2016 7:41:35 AM					

Photo 1 of 2 : UCIP_FA_2016_50375_64736.jpg



Pipe on LS showing rodent activity.

LM Start	1.76	Rating **	M	Issue No.	26 (cont)
LM End	1.76	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_50375_64735.jpg



Pipe on LS showing rodent activity.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sutter Maintenance Yard Wadsworth Canal

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	09/23/2016 09/23/2016	Tariq Chechi

LM Start	2.95	Rating **	M	Issue No.	22
LM End	2.95	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			39.148938 °	39.148938 °
				-121.737620 °	-121.737620 °
DWR ID	DWR_ST0010_02_f_2016_22				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Longitudinal cracks caused by fat clay.					

Photo 1 of 1 : FA_2016_ST0010_43_22_20161003_00034.jpg



View of the longitudinal cracks along the landside slope.

LM Start	3.00	Rating **	M	Issue No.	27
LM End	3.00	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.149561 °	39.149561 °
				-121.737080 °	-121.737080 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50378 DS_ID:17077 EP_NO: 7209 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/12/2016 Tree at the WS pipe end is still an issue and needs to be cut away. LS inlet is also being overgrown with vegetation.(DWR Sutter Yard - afreitag)4/19/2016 Tree at WS pipe end needs to be trimmed back and/or removed. 5/12/2015 Tree growing near WS pipe end is getting too big and will affect the crossing. It needs to be cut back or removed.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe (permit records indicate 30-inch pipe O&M pipe replaced with new 30-inch pipe) through the levee, 14 feet below the crown. Flap gate located on the waterside (WS) end. (original O&M manual crossing was replaced under Permit No. 7209, 1970 - Department of Water Resources) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 158+35)]. FS Date: 10/13/2016 7:48:59 AM					

Photo 1 of 2 : UCIP_FA_2016_50378_64744.jpg



Bush camouflaging outlet of pipe on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	09/23/2016 09/23/2016	Tariq Chechi

LM Start	3.00	Rating **	M	Issue No.	27 (cont)	
LM End	3.00	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.149561 °	39.149561 °	
				-121.737080 °	-121.737080 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50378 DS_ID:17077 EP_NO: 7209 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/12/2016 Tree at the WS pipe end is still an issue and needs to be cut away. LS inlet is also being overgrown with vegetation.(DWR Sutter Yard - afreitag)4/19/2016 Tree at WS pipe end needs to be trimmed back and/or removed. 5/12/2015 Tree growing near WS pipe end is getting too big and will affect the crossing. It needs to be cut back or removed.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe (permit records indicate 30-inch pipe O&M pipe replaced with new 30-inch pipe) through the levee, 14 feet below the crown. Flap gate located on the waterside (WS) end. (original O&M manual crossing was replaced under Permit No. 7209, 1970 - Department of Water Resources) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 158+35)]. FS Date: 10/13/2016 7:48:59 AM						

Photo 2 of 2 : UCIP_FA_2016_50378_64743.jpg



Heavy vegetation at LS inlet at channel.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	09/23/2016 09/23/2016	Tariq Chechi

LM Start	3.28	Rating **	M	Issue No.	28
LM End	3.28	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.153172 °	39.153172 °
				-121.734741 °	-121.734741 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50379 DS_ID:23098 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/12/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)5/27/2016 Need photos of markers and levee overview. (O. Magana)4/19/2016 Crossing appears to be in good condition. No permit on file.5/12/2015 Crossing is in good condition but does not have a permit on file for it.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 No known permit for work. FIELD_STRUCT_DESC: 4-inch steel communication line conduit through the levee, 2 feet below the crown. Fiber optic line attached to bottom of downstream side of South Butte Road Bridge. Position marked with orange markers on both the waterside (WS) and landside (LS). No permit has been identified since crossing was field discovered in 2012. FS Date: 10/13/2016 7:50:48 AM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	09/23/2016 09/23/2016	Tariq Chechi

LM Start	3.31	Rating **	M	Issue No.	29
LM End	3.31	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.153491 °	39.153491 °
				-121.734636 °	-121.734636 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50381 DS_ID:17078 EP_NO: 10473 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/12/2016 WS appears to be in good condition. LS is still very rusted where it extends over the LS ditch.(DWR Sutter Yard - afreitag)4/19/2016 No changes have been made to this crossing. LS pipe outlet is still very rusted. 5/12/2015 Pipe is very rusty at Outlet in LS channel. No noticeable issues with WS.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection.10/9/2012 Pipe shows signs of heavy rust at outlet in channel. Good candidate for video inspection. FIELD_STRUCT_DESC: 16-inch asphalt coated steel irrigation pipe through the levee, 2.7 feet below the crown. 16-inch pipe was measured during the UCIP field inspection, record sources at this location reference the following pipe diameter size: USACE O&M manual references a 24-inch pipe, levee logs reference a 22-inch pipe, and permit records reference a 22-inch pipe. Unable to determine if original 22-inch pipe is still present through the levee. Vertical pump in the channel with a service pole on the waterside (WS) berm. Pipe discharges into 36-inch concrete standpipe located on the landside (LS) toe of the levee. (retain existing 22-inch pipe through levee and remove existing 12-inch pipe and replaced with 12-inch pipe under Permit No. 5622, 1967 - Webb, remove 12-inch pipe and replace with 12-inch pipe under Permit No. 10473, 1976 - Brown, install 16-inch pipe from canal to levee slope and modify existing 22-inch pipe under Permit No. 10473-A, 1976 - Brown). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 174+63)]. FS Date: 10/13/2016 8:00:20 AM					

Photo 1 of 2 : UCIP_FA_2016_50381_64761.jpg



Pump on steel pier at WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	09/23/2016 09/23/2016	Tariq Chechi

LM Start	3.31	Rating **	M	Issue No.	29 (cont)	
LM End	3.31	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.153491 °	39.153491 °	
				-121.734636 °	-121.734636 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50381 DS_ID:17078 EP_NO: 10473 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/12/2016 WS appears to be in good condition. LS is still very rusted where it extends over the LS ditch.(DWR Sutter Yard - afreitag)4/19/2016 No changes have been made to this crossing. LS pipe outlet is still very rusted. 5/12/2015 Pipe is very rusty at Outlet in LS channel. No noticeable issues with WS.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection.10/9/2012 Pipe shows signs of heavy rust at outlet in channel. Good candidate for video inspection. FIELD_STRUCT_DESC: 16-inch asphalt coated steel irrigation pipe through the levee, 2.7 feet below the crown. 16-inch pipe was measured during the UCIP field inspection, record sources at this location reference the following pipe diameter size: USACE O&M manual references a 24-inch pipe, levee logs reference a 22-inch pipe, and permit records reference a 22-inch pipe. Unable to determine if original 22-inch pipe is still present through the levee. Vertical pump in the channel with a service pole on the waterside (WS) berm. Pipe discharges into 36-inch concrete standpipe located on the landside (LS) toe of the levee. (retain existing 22-inch pipe through levee and remove existing 12-inch pipe and replaced with 12-inch pipe under Permit No. 5622, 1967 - Webb, remove 12-inch pipe and replace with 12-inch pipe under Permit No. 10473, 1976 - Brown, install 16-inch pipe from canal to levee slope and modify existing 22-inch pipe under Permit No. 10473-A, 1976 - Brown). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 174+63)]. FS Date: 10/13/2016 8:00:20 AM						

Photo 2 of 2 : UCIP_FA_2016_50381_64760.jpg



Rusted outlet at LS channel. Unclear if this is same pipe as one under investigation.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	09/23/2016 09/23/2016	Tariq Chechi

LM Start	3.31	Rating **	U	Issue No.	30
LM End	3.31	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.153530 °	39.153530 °
				-121.734620 °	-121.734620 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50382
DS_ID:17081
EP_NO: 5622
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 10/12/2016 WS seems to be in good conditon. No repairs have been made yet where the pipe appears to be leaking under the LS toe road.(DWR Sutter Yard - afreitag)4/19/2016 No repairs seem to have been made yet. Pipe still appears to be leaking under the LS toe road. (DWR Sutter Yard - afreitag)5/12/2015 Pipe appears to have not yet been repaired. Still looks to be leaking under the LS toe road. (DWR Sutter Yard - afreitag)11/18/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/16/2013 Signs of leaks near concrete stand pipe on LS toe-road. Area about 20ft. long is muddy and there has not been any rain for a few weeks. (DWR Sutter Yard - afreitag)
FIELD_STRUCT_DESC: 15-inch steel irrigation pipe through the levee, 2.7 feet below the crown. Vertical pumps located in the channel. Power pole on the waterside (WS) slope. Pipe discharges into 36-inch concrete standpipe located on the landside (LS) toe. 16-inch corrugated metal pipe (CMP) riser located on the LS shoulder. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 174+60)].
FS Date: 10/13/2016 8:00:47 AM

LM Start	3.31	Rating **	U	Issue No.	30 (cont)
LM End	3.31	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_50382_64764.jpg



Pump station in channel on WS

Photo 2 of 2 : UCIP_FA_2016_50382_64763.jpg



36in. concrete standpipe and 12in. cm riser on LS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Sutter Maintenance Yard Wadsworth Canal

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	09/23/2016 09/23/2016	Tariq Chechi

LM Start	3.54	Rating **	M	Issue No.	5 (cont)	
LM End	3.93	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			39.156753 °		39.162113 °
				-121.733267 °		-121.730997 °
DWR ID	DWR_ST0010_02_s_2012_5					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						
Monitor is the erosion at the waterside toe.						

Photo 2 of 2 : FA_2016_ST0010_43_5_20160823_00005.jpg



View of erosion at the waterside toe

LM Start	4.41	Rating **	M	Issue No.	9
LM End	4.43	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.168659 °	39.168937 °
				-121.728016 °	-121.727905 °
DWR ID	DWR_ST0010_02_s_2016_9				
Comment Code					
Inspector Comment					
2011 - Small erosion pocket. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: WAD_4-3_R]					

Photo 1 of 2 : FA_2016_ST0010_43_9_20160823_00010.jpg



View of the erosion along the waterside toe.

LM Start	4.41	Rating **	M	Issue No.	9 (cont)
LM End	4.43	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_ST0010_43_9_20160823_00011.jpg



View of the erosion along the waterside toe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	09/23/2016 09/23/2016	Tariq Chechi

LM Start	4.47	Rating **	M	Issue No.	7
LM End	4.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.169532 °	39.169800 °
				-121.727860 °	-121.727703 °
DWR ID	DWR_ST0010_02_s_2012_7				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Monitor the erosion along the waterside toe.					

LM Start	4.47	Rating **	M	Issue No.	7 (cont)
LM End	4.49	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : FA_2016_ST0010_43_7_20160823_00006.jpg



View of the erosion along the W/S toe.

Photo 2 of 2 : FA_2016_ST0010_43_7_20160823_00007.jpg



View of the erosion along the waterside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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